

# HALLIBURTON

## Cementing Job Summary

**The Road to Excellence Starts with Safety**

Sold To #: 304535		Ship To #: 2861600		Quote #:		Sales Order #: 8267991	
Customer: PDC ENERGY EBUS				Customer Rep: Sailors, Chad			
Well Name: Wells Ranch		Well #: 21-3		API/UWI #: 05-123-22230			
Field:	City (SAP): KERSEY	County/Parish: Weld		State: Colorado			
Contractor: BWS		Rig/Platform Name/Num: #19					
Job Purpose: Recement Service		Job Type: Recement Service					
Well Type: Development Well		Srv Supervisor: LAVALLEY, LARRY		MBU ID Emp #: 419296			
Sales Person: FLING, MATTHEW							
Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
FLYNN, SHAD	2.5	476484	LAVALLEY, LARRY P	2.5	419296	THOMPSON, STEVEN	2.5
Michael						Darrin	445340
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11019275C	52 mile	11488570C	52 mile	11518549	52 mile	11633846C	52 mile
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
6/22/11	3						
TOTAL		Total is the sum of each column separately					
Job				Job Times			
Formation Name	Top		Bottom		Date		Time
Formation Depth (MD)					22 - Jun - 2011		04:00
Form Type	BHST		On Location		22 - Jun - 2011		06:40
Job depth MD	1822. ft		Job Depth TVD		22 - Jun - 2011		07:45
Water Depth	Wk Ht Above Floor		6. ft		22 - Jun - 2011		09:00
Perforation Depth (MD)	From		To		22 - Jun - 2011		09:30
Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
Open Hole			9.				368.
Production Casing	Unknown		4.5	4.052	10.5		J-55
Surface Casing	Unknown		8.625	8.097	24.		J-55
TUBING	Unknown		1.25	.671	3.02		
Tools and Accessories							
Type	Size	Qty	Make	Depth	Type	Size	Qty
Guide Shoe					Packer		
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float							
Stage Tool							
Miscellaneous Materials							
Gelling Agt	Conc		Conc	Surfactant	Conc	Acid Type	Qty
Treatment Fld	Conc		Conc	Inhibitor	Conc	Sand Type	Size

Stage/Plug #: 1			Fluid Data									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk			
1	ClayFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0				
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	.0	2.0				
3	CalyFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0				
		59.525 gal/Mgal CLAYFIX 3, TOTETANK (101583425)										
4	Varicem 13#	VARICEM (TM) CEMENT (452009)	370.0	sacks	13.	1.71	8.84	2.0	8.84			
		8.84 Gal FRESH WATER										
Calculated Values		Pressures		Volumes								
Displacement	1	Shut In: Instant		Lost Returns	0	Cement Slurry	102	Pad				
Top Of Cement		5 Min		Cement Returns	9	Actual Displacement	1	Treatment				
Frac Gradient		15 Min		Spacers	32	Load and Breakdown		Total Job	145			
Rates												
Circulating		Mixing	2	Displacement	2	Avg. Job	2					
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint								
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID					
The Information Stated Herein Is Correct					Customer Representative Signature							

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Well Name: Wells Ranch		Well #: 21-3		API/UWI #: 05-123-22230		State: Colorado	
Field:		City (SAP): KERSEY		County/Parish: Weld			
Legal Description:							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.					
Contractor: BWS		Rig/Platform Name/Num: #19				Ticket Amount:	
Job Purpose: Recement Service		Job Type: Recement Service					
Well Type: Development Well		Src Supervisor: LAVALLEY, LARRY		MBU ID Emp #: 419296			
Sales Person: FLING, MATTHEW							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	06/22/2011 07:46							WELL CIRCULATED 1 HOUR PRIOR TO CEMENTING
Test Lines	06/22/2011 07:47							1943.0 TEST LINES WITH RIG WATER
Pump Spacer 1	06/22/2011 07:49		2	10	10			948.0 RIG WATER WITH CLAYFIX III
Pump Spacer 2	06/22/2011 07:55		2	12	22			931.0 RIG WATER WITH MUDDLUSH III
Pump Spacer 1	06/22/2011 08:01		2	10	32			948.0 RIG WATER WITH CLAYFIX III
Pump Lead Cement	06/22/2011 08:06		2	112	144			936.0 370 SKS VARICEM MIXED @ 13PPG WITH RIG WATER
Other	06/22/2011 08:55		2	1	145			60.0 SHUT DOWN TO PUMP REMAINDER OF CEMENT TO PIT
Pump Displacement	06/22/2011 09:01							1019.0
End Job	06/22/2011 09:02							